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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

Complete if Known

Application Number	10/747,737
Filing Date	12/29/2003
First Named Inventor	Bailey et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	PA97/UTS-43-09D13D21

U.S. PATENT DOCUMENTS

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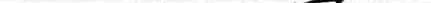
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/747,737
(use as many sheets as necessary)				Filing Date	12/29/2003
				First Named Inventor	Bailey et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	4	Attorney Docket Number	PA97/UTS-43-09D13D21

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	5/15/06
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/747,737
Sheet	3	of	4	Filing Date	12/29/2003
				First Named Inventor	Bailey et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	PA97/UTS-43-09D13D21

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
EL	A14	Krauss, et al., "Fabrication of Nanodevices Using Sub-25nm Imprint Lithography", Appl. Phys. Lett., 67(21), 3114-3116, 1995.	
EL	A15	Feldman et al., "Wafer Chuck for Magnification Correction in X-Ray Lithography", Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3476-3479, vol B 16(6)	
EL	A16	SREENIVASAN et al., "High-Resolution Overlay Alignment Methods and Systems for Imprint Lithography," U.S. Patent Application 09/907,512. Filed with USPTO on July 16, 2001.	
EL	A17	CHOI et al., "Method and System of Automatic Fluid Dispensing for Imprint Lithography Processes," U.S. Patent Application 09/908,455. Filed with USPTO on July 17, 2001.	
EL	A18	CHOI et al., "Methods for High-Precision Gap and Orientation Sensing Between a Transparent Template and Substrate for Imprint Lithography," U.S. Patent Application 09/920,341. Filed with USPTO on August 1, 2001.	
EL	A19	CHOI et al., "Flexure Based Macro Motion Translation Stage," U.S. Patent Application 09/934,248. Filed with USPTO on August 21, 2001.	
EL	A20	BAILEY et al., "Template for Room Temperature Low Pressure Micro- and Nano-Imprint Lithography," U.S. Patent Application 09/976,681. Filed with USPTO on October 12, 2001.	
EL	A21	VOISIN, "Methods of Manufacturing a Lithography Template," U.S. Patent Application 10/136,188. Filed with USPTO on May 1, 2002.	
EL	A22	WATTS et al., "System and Method for Dispensing Liquids," U.S. Patent Application 10/191,749. Filed with USPTO July 9, 2002.	
EL	A23	SREENIVASAN et al., "Method and System for Imprint Lithography Using an Electric Field," U.S. Patent Application 10/194,410. Filed with USPTO July 11, 2002.	
EL	A24	SREENIVASAN et al., "Step and Repeat Imprint Lithography Systems," U.S. Patent Application 10/194,414. Filed with USPTO July 11, 2002.	

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Examiner Name	Unassigned														
Sheet	4	of	4	Attorney Docket Number	PA97/UTS-43-09D13D21										

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	10/747,737
Filing Date	12/29/2003
First Named Inventor	Todd Bailey
Group Art Unit	1756
Examiner Name	Unassigned
Attorney Docket Number	PA97-39D13D21

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Proptee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
el	B1	2004/0168588	A1	Choi et al.	9/2/2004	
	B2	2004/0149687	A1	Choi et al.	8/5/2004	
	B3	2003/0215577	A1	Willson et al.	11/20/2003	
	B4	2004/0007799	A1	Choi et al.	1/15/2004	
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	B6	2004/0021666	A1	Watts et al.	1/5/2004	
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	B8	2004/0251775	A1	Choi et al.	12/16/2004	
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	B23	2004/0112861	A1	Choi et al.	6/17/2004	
	B24	2004/0223131	A1	Choi et al.	11/11/2004	
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el	B26	2003/0179354	A1	Araki et al.	9/25/2003	

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/747,737
				Filing Date	12/29/2003
				First Named Inventor	Todd Bailey
				Group Art Unit	1756
				Examiner Name	Unassigned
				Attorney Docket Number	PA97-39D13D21
Sheet	2	of	3		

Examiner Signature		Date Considered	5/15/06
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
<i>(use as many sheets as necessary)</i>			
Sheet	3	of	3
		Application Number	10/747,737
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		Group Art Unit	1756
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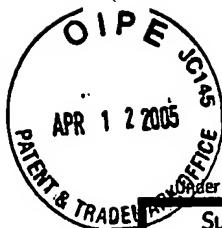
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	5/15/66
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

1

of

7

APPLICATION NUMBER 10/747,737

FILING DATE 12/29/2003

FIRST NAMED INVENTOR Bailey et al.

Group Art Unit 1756

Examiner Name Unassigned

Attorney Docket Number PA97-39D13D21

FOREIGN PATENT DOCUMENTS

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		Office	Number ⁴				

EL	C1	4,731,155		Napoli et al.	3/15/1988		
	C2	5,425,848		Halsma et al.	6/20/1995		
	C3	5,772,905		Chou	6/30/1998		
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	C5	6,309,580	B1	Chou	10/30/2001		
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	C7	6,391,217	B2	Schaffer et al.	5/21/2002		
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	C9	2002/0177319	A1	Chou	11/28/2002		
	C10	2003/0215577	A1	Willson et al.	11/20/2003		
	C11	2004/0008334	A1	Sreenivasan et al.	1/15/2004		
	C12	2004/0009673	A1	Sreenivasan et al.	1/15/2004		
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	C14	6,646,662	B1	Nebashi et al.	11/11/2003		
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	C16	6,518,189	B1	Chou	2/11/2003		
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EL	C18	2002/0167117	A1	Chou	11/14/2002		

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EC	C19	6,482,742	B1	Chou	11/19/2002	
	C20	2003/0080471	A1	Chou	5/1/2003	
	C21	2004/0036201	A1	Chou et al.	2/26/2004	
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EL	C35	2003/0034329	A1	Chou	2/20/2003	
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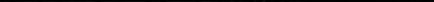
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Sheet	3	of	7	Attorney Docket Number	PA97-39D13D21

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Examiner Signature		Date Considered	5/15/06
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	4	of	7	APPLICATION NUMBER	10/747,737
				FILING DATE	12/29/2003
				FIRST NAMED INVENTOR	Bailey et al.
				Group Art Unit	1756
				Examiner Name	Unassigned
				Attorney Docket Number	PA97-39D13D21

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
FC	C47	WO	00/21689		Chou et al.	4/20/2000		
	C48	JP	02-92603		Kurikawa et al.	4/3/1990		
	C49	JP	02-24848		Kamio	1/26/1990		
	C50	WO	01/47003		Steiner et al.	6/28/2001		
	C51	WO	02/07199		Chou	1/24/2002		
	C52	WO	2004/114016		Chou et al.	12/29/2004		
	C53	WO	99/05724		Chou et al.	2/4/1999		
	C54	WO	03/010289		Chou et al.	2/6/2003		
	C55	WO	03/079416		Chou	9/25/2003		
FC	C56	WO	03/099538		Chou et al.	12/4/2003		

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Sheet	5	of	7		
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				FIRST NAMED INVENTOR	Bailey et al.
				Group Art Unit	1756
				Examiner Name	Unassigned
				Attorney Docket Number	PA97-39D13D21

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
T ²		

EL	C57	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001
	C58	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001
	C59	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000
	C60	Chou et al., Imprint Lithography with 25-Nanometer Resolution, Science Vol. 272, pp. 85 - 87, 4/5/1996
	C61	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997
	C62	Halsma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996
	C63	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995
	C64	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003
EL	C65	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999

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				FILING DATE	12/29/2003
				FIRST NAMED INVENTOR	Bailey et al.
				Group Art Unit	1756
				Examiner Name	Unassigned
				Attorney Docket Number	PA97-39D13D21

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials* Cite No.¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. T²

<i>EC</i>	C66	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999
	C67	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000
	C68	Translation of Japanese Patent 02-92603
	C69	Translation of Japanese Patent 02-24848
	C70	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002
	C71	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technolgy B 14(16), pp. 4129-4133, 11/1/1996
	C72	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001
	C73	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001
<i>EC</i>	C74	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001

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EC	C75	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
EC	C76	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

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